

Translation

PATENT COOPERATION TREATY

PCT/JP2003/001960



# PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

19 AUG 2004

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference H1669-01	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP2003/001960	International filing date (day/month/year) 24 February 2003 (24.02.2003)	Priority date (day/month/year) 25 February 2002 (25.02.2002)
International Patent Classification (IPC) or national classification and IPC G02B 15/16, 13/18		
Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.</p> <p><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of <u>7</u> sheets.</p>																									
<p>3. This report contains indications relating to the following items:</p> <table><tr><td>I</td><td><input checked="" type="checkbox"/></td><td>Basis of the report</td></tr><tr><td>II</td><td><input type="checkbox"/></td><td>Priority</td></tr><tr><td>III</td><td><input type="checkbox"/></td><td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td></tr><tr><td>IV</td><td><input type="checkbox"/></td><td>Lack of unity of invention</td></tr><tr><td>V</td><td><input checked="" type="checkbox"/></td><td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td></tr><tr><td>VI</td><td><input type="checkbox"/></td><td>Certain documents cited</td></tr><tr><td>VII</td><td><input type="checkbox"/></td><td>Certain defects in the international application</td></tr><tr><td>VIII</td><td><input checked="" type="checkbox"/></td><td>Certain observations on the international application</td></tr></table>		I	<input checked="" type="checkbox"/>	Basis of the report	II	<input type="checkbox"/>	Priority	III	<input type="checkbox"/>	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	IV	<input type="checkbox"/>	Lack of unity of invention	V	<input checked="" type="checkbox"/>	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	VI	<input type="checkbox"/>	Certain documents cited	VII	<input type="checkbox"/>	Certain defects in the international application	VIII	<input checked="" type="checkbox"/>	Certain observations on the international application
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VERSION

Date of submission of the demand 22 July 2003 (22.07.2003)	Date of completion of this report 16 April 2004 (16.04.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP2003/001960

## I. Basis of the report

### 1. With regard to the elements of the international application:\*

- ☐ the international application as originally filed
- ☒ the description:  
 pages 1-2, 4-12, 14-29, as originally filed  
 pages 3, 13, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☒ the claims:  
 pages 3, 7-10, as originally filed  
 pages \_\_\_\_\_, as amended (together with any statement under Article 19  
 pages \_\_\_\_\_, filed with the demand  
 pages 1-2, 14-22, filed with the letter of 26 March 2004 (26.03.2004)
- ☒ the drawings:  
 pages 1/23-23/23, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

### 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

### 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

### 4. ☒ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☒ the claims, Nos. 4-6, 11-13
- ☐ the drawings, sheets/fig \_\_\_\_\_

### 5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

**VIII. Certain observations on the international application**

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

The disclosures of claims 1 and 14 indicate a third lens group that comprises a lens exhibiting a positive refractive power, a lens exhibiting a positive refractive power and a lens exhibiting a negative refractive power, which has a positive refractive power overall and is fixed in relation to the optical axis direction when magnifying and focusing, and furthermore indicate that the third lens group is defined by the inclusion of a doublet lens with a cementing surface wherein the convex surface faces the image side.

However, in the invention indicated in preferred embodiment 2 (example 3), the third lens group does not include a doublet lens; therefore, embodiment 2 does not conform to the invention as set forth in claim 1.

Furthermore, although the features set forth in the aforementioned preferred embodiment and example may be retained in the description as information, it is preferable not to disclose specific items, such as preferred embodiments, examples or comparative examples, which set forth features that do not pertain to the invention.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/JP 03/01960

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Claims	1-3, 7-10, 14-22	YES
	Claims		NO
Inventive step (IS)	Claims	1-3, 7-10, 14-22	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-3, 7-10, 14-22	YES
	Claims		NO

### 2. Citations and explanations

Document 1: JP 2001-91830 A (Canon Inc.), 06 April 2001, entire text, all drawings, (Family: none)

Document 2: JP 11-237551 A (Matsushita Electric Industrial Co., Ltd.), 31 August 1999, entire text, all drawings, (Family: none)

Document 3: JP 2001-305426 A (Sony Corp.), 31 October 2001, entire text, all drawings, (Family: none)

Claims 1-3, 7-10 and 14-22

Documents 1-3 do not disclose the zoom lens set forth in independent claims 1 and 14 of the present application, which is configured from a first lens group exhibiting a positive refractive power, a second lens group exhibiting a negative refractive power, a third lens group exhibiting a positive refractive power and a fourth lens group exhibiting a positive refractive power in that order from the object side, wherein when changing the magnification from a wide angle to a telescopic angle, the aforementioned second lens group moves along the optical axis and the aforementioned fourth lens group moves along the optical axis so as to maintain a predetermined position in relation to the position of the image plane, which varies in accordance with the movement of the

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/JP 03/01960

aforementioned second lens group and the object, and the aforementioned first lens group comprises a negative lens, a positive lens and a positive lens in that order from the object side to the image side, the aforementioned second lens group comprises a negative meniscus lens, a negative lens, a biconvex positive lens and a negative lens in that order from the object side to the image side and the aforementioned third lens group comprises a positive lens, a positive lens and a negative lens in that order from the object side to the image side, said lens fulfilling either condition (5) or condition (6). Likewise, the fulfilment of either the aforementioned condition (5) or the aforementioned condition (6) cannot be said to be obvious to a person skilled in the art. Therefore, the inventions set forth in claims 1-3, 7-10 and 14-22 are novel and involve an inventive step in relation to the aforementioned documents 1-3.